

IN THE CLAIMS

This listing of claims replaces all prior listings:

1. (Currently Amended) A field electron emission film on an electrode substrate, said field electron emission film used for a field electron emission electrode, comprising:

an ink; and

a carbon nanotube structural body of 0.001 to 40% by weight and a heat-decomposable metal compound dispersed therein; ~~and~~

~~a heat decomposition product obtained by heat decomposition of a heat decomposable metal compound~~

wherein,

said ink is coated and sintered on said surface of said electron substrate,

said heat-decomposable metal compound in said ink is decomposed to a heat decomposition product by sintering and

said heat decomposition product having an adhesive characteristic imparted by said sintering.

2. (Currently Amended) The field electron emission film ~~as cited in~~ according to claim 1, wherein;

said heat-decomposable metal compound is an organo-metallic compound.

3. (Currently Amended) The field electron emission film ~~as cited in~~ according to claim 1, wherein;

said heat-decomposable metal compound is a metal salt.

4. (Currently Amended) The field electron emission film ~~as cited in~~ according to claim 1, wherein;

said heat-decomposable metal compound is an organo-metallic salt compound.

5. (Currently Amended) The field electron emission film ~~as cited in~~ according to claim 1,
wherein;

said heat-decomposable metal compound is a metal complex.

6. (Currently Amended) The field electron emission film ~~as cited in~~ according to claim 1,
wherein;

said a heat-decomposable metal compound ~~heat decomposition product~~ is
composed of a plurality of metals.

7. (Currently Amended) The field electron emission film ~~as cited in~~ according to claim 6,
wherein;

said plurality of metals are Sn and at least one metal is selected from the group
consisting of In and Sb.

8. (Currently Amended) The field electron emission film ~~as cited in~~ according to claim 7,
wherein;

said plurality of metals are Sn and In, and where ~~the~~ ratio of Sn to In is 6 at% or
more.

9. (Currently Amended) The field electron emission film ~~as cited in~~ according to claim 1,
wherein; a thickness of said field electron emission film is 0.05 μm to 20 μm .

10. (Currently Amended) A field electron emission electrode of 2-pole type, comprising:

~~a cathode and a field electron emission film sequentially formed on a support,~~

a cathode on said support; and

a field electron emission film on said cathode.

wherein;

~~by weight of a~~ said field electron emission film ~~comprises~~comprises an ink having 0.001 to 40%
~~by weight of a~~ carbon nanotube structural body of 0.001 to 40% by weight and ~~a heat~~
~~decomposition product obtained by heat decomposition of a heat-decomposable metal compound~~
dispersed therein.

said ink is coated and sintered on said surface of said cathode.

said heat-decomposable metal compound in said ink is decomposed to a heat
decomposition product by sintering and

said heat decomposition product having an adhesive characteristic imparted by said
sintering.

11. (Currently Amended) A field electron emission electron of 3-pole type, comprising:
~~a cathode, an insulating film, and a gate electrode sequentially formed on a~~
support;

a cathode on said support;

an insulating film on said cathode;

a gate electrode on said insulating film;

an first opening ~~formed in common in the~~ in said gate electrode;

a second opening in said insulating film and the gate electrode;

said first and second opening overlapping at least in part; and

a field electron emission film ~~formed at least on the~~ said cathode exposed in the
opening,

wherein;

said field electron emission film comprises an ink having a carbon nanotube structural
body of 0.001 to 40% by weight and a heat-decomposable metal compound dispersed therein.

said ink is coated and sintered on said surface of said cathode,

said heat-decomposable metal compound in said ink is decomposed to a heat decomposition product by sintering and

said heat decomposition product having an adhesive characteristic imparted by said sintering ~~said field electron emission film comprises 0.001 to 40% by weight of carbon nanotube structural body and~~

~~—— a heat decomposition product obtained by heat decomposition of a heat-decomposable metal compound.~~

12. (Currently Amended) A field electron emission display device comprising:

a cathode ~~panel~~ paneled having a plurality of field electron emission electrodes disposed thereon; and

an anode panel having a fluorescent layer and an anode disposed thereon, the both panels being bonded at the individual circumferential portions thereof; and,

a field electron emission film on said cathode panel,

wherein,

said field electron emission film comprises an ink having a carbon nanotube structural body of 0.001 to 40% by weight and a heat-decomposable metal compound dispersed therein,

said ink is coated and sintered on said surface of said cathode,

said heat-decomposable metal compound in said ink is decomposed to a heat decomposition product by sintering and

said heat decomposition product having an adhesive characteristic imparted by said sintering

~~wherein;~~

~~_____ said electrode as cited in claim 10 or 11 is used as the field electron emission~~
electrode.